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THE DIRECTION OF THE
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OF THE
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Vol. 14, p. 159, 3rd line of 1st Summary, for eight *hours* read eight *days*.
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Am. signifies Amoebiasis and Amoebic Dysentery.
Bb. ,, Beriberi
Bl. ,, Blackwater
B.R. ,, Book Review
Chl. ,, Cholera
Dys. ,, Dysentery (Bacillary & Unclassed)
Ent. ,, Enteric Fevers
Fev. ,, Fevers
Hel. ,, Helminthiasis
H.S. ,, Heat Stroke
K.A. ,, Kala Azar
Lep. ,, Leprosy
Mal. ,, Malaria
Misc. ,, Miscellaneous
Pel. ,, Pellagra
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R.F. ,, Relapsing Fever
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Compiled by Miss M. H. JAMES.

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Handbuch der Tropenkrankheiten 2te. Auflage (Mense), Band 5. Die Malaria und das Schwarzwasserfieber (Ziemann), 471–2
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